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- 46. A method according to claim 28 wherein the underlying disease is any one of AIDS, liver cirrhosis, chronic obstructive pulmonary disease with or without emphysema, chronic renal failure, chronic infections, cancer, heart disease including hypertension and chronic heart failure.
- 47. A method according to claim 28 wherein the patient has idiopathic cachexia.

Remarks

The claims have been amended to use proper Markush claim language and to remove multiple dependencies. No new matter has been introduced.

The attached appendices recite all claims with amendments marked and as a clean copy.

Respectfully submitted,

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APPENDIX: Claims Marked to Show Amendments

1. (amended) A method of treating weight loss due to underlying disease in a patient the

method comprising administering to the patient an effective amount of an agent selected from

the group consisting of an agent which reduces sympathetic nervous system activity and/or

improves cardiovascular reflex status, a compound which inhibits the effect of aldosterone, a

chymase inhibitor, a cathepsin inhibitor, a receptor blocker, an imidazoline receptor

antagonist, an imidazoline receptor antagonist, a peripherally acting receptor antagonist, a

ganglion blocking agent, a drug that has an effect on cardiovascular reflexes and thereby

reduces SNS activity, an opiate, scopolamine, an endothelin receptor antagonist, a xanthine

oxidase inhibitor, and erythropoietin.

2. A method according to Claim 1 wherein the agent which reduces sympathetic nervous

system activity is any one or more of the following: a compound which inhibits the effect of

aldosterone such as an aldosterone antagonist; a chymase inhibitor; a cathepsin inhibitor; a

receptor blocker; an imidazoline receptor antagonist; a centrally acting receptor antagonist;

a peripherally acting receptor antagonist; a ganglion blocking agent; a drug that has an

effect on cardiovascular reflexes and thereby reduce SNS activity such as an opiate;

scopolamine; endothelin receptor antagonist; a xanthine oxidase inhibitor; and erythropoietin.

3. (amended) A method claim 1 of treating weight loss due to underlying disease in a

patient the method comprising administering to the patient an effective amount of a

compound which inhibits the effect of aldosterone, such as an aldosterone antagonist.

4. A method according to Claim 3 wherein the compound which inhibits the effect of

aldosterone is any one of spironolactone, testolactone, RU40555, RU26752, canrenoate,

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eplerenone, 3-(17 -hydroxy-3-oxoandrosta-1,4,6,11-tetraen-17 -yl)propionic acid lactone,

3-(9- -fluoro-17 -hydroxy-3-oxo-androsta-4-en-17 -ylpropionic acid lactone, dihydro-

spirorenone, spirorenone, 15,16-methylene derivatives of spironolactone, mespirenone and

SC9420.

5. (amended) A method of claim 1 of treating weight loss due to underlying disease in a

patient the method comprising administering to the patient an effective amount of a chymase

inhibitor.

6. A method according to Claim 5 wherein the chymase inhibitor is any one of

alendronate, aprotinin and tissue inhibitors of matrix metalloproteinases.

7. (amended) A method of claim 1 of treating weight loss due to underlying disease in a

patient the method comprising administering to the patient an effective amount of a cathepsin

inhibitor.

8. A method according to Claim 7 wherein the cathepsin B inhibitor is any one of an

epxoysuccinyl peptide such as CA-074 or E64-c, stefin A and cystatin C.

9. (Amended) A method of claim 1 of treating weight loss due to underlying disease in

a patient the method comprising administering to the patient an effective amount of a

receptor blocker.

10. A method according to Claim 9 wherein the receptor blocker is any one of

acebutolol, alprenolol, atenolol, betaxolol, bisoprolol, carteolol, celiprolol, esmolol, labetolol,

lavobunolol, metipranolol, metoprolol, nadolol, oxprenolol, penbutolol, pindolol, propanolol,

sotalol, timolol, nebivolol, carvedilol and bucindolol.

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11. (Amended) A method of claim 1 of treating weight loss due to underlying disease in

a patient the method comprising administering to the patient an effective amount of an

imidazoline receptor antagonist.

12. A method according to Claim 11 wherein the imidazoline receptor antagonist is any

one of moxonidine, rilmenidine, pentamidine and -me thyldopa.

13. (amended) A method of claim 1 of treating weight loss due to underlying disease in a

patient the method comprising administering to the patient an effective amount of an

imidazoline receptor antagonist.

14. A method according to Claim 13 wherein the centrally acting receptor agonist is

clonidine.

15. (Amended) A method of claim 1 of treating weight loss due to underlying disease in

a patient the method comprising administering to the patient an effective amount of a

peripherally acting receptor antagonist.

16. A method according to Claim 15 wherein the peripherally acting receptor antagonist

is any one of doxazosin, prazosin, terazosin and ipsapirone.

17. (amended) A method of claim 1 of treating weight loss due to underlying disease in a

patient the method comprising administering to the patient an effective amount of a ganglion

blocking agent.

18. A method according to Claim 17 wherein the ganglion blocking agent is any one of

azamethonium, dicolinium, hexamethonium, mecamylamine, pentamethonium, pentolinium,

trimetaphan, benzohexonium, hexafluorenium, cypenam, trimethaphan canfosulfonate,

tetraethylammonium bromide and synapleg.

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19. (Amended) A method of claim 1 of treating weight loss due to underlying disease in

a patient the method comprising administering to the patient an effective amount of a drug

that has an effect on cardiovascular reflexes and thereby reduces SNS activity.

20. (Amended) A method of claim 1 of treating weight loss due to underlying disease in

a patient the method comprising administering to the patient an effective amount of an opiate.

21. A method according to Claim 20 wherein the opiate is any one of dihydrocodeine,

morphine, diamorphine and buprenorphine.

22. (Amended) A method of claim 1 of treating weight loss due to underlying disease in

a patient the method comprising administering to the patient an effective amount of

scopolamine.

23. (Amended) A method of claim 1 of treating weight loss due to underlying disease in

a patient the method comprising administering to the patient an effective amount of an

endothelin receptor antagonist.

24. A method according to Claim 23 wherein the ET-1 receptor antagonist is any one of

butenolide, BQ123, BQ-788, A-216546, ABT-627, IRL3461, LU135252, S-0139, T-0201,

PD 142,893, PD 164333, RO 61-1790, PD 156,707, SB 209670, IRL 1038 and WS-7338 B.

25. (Amended) A method of claim 1 of treating weight loss due to underlying disease in

a patient the method comprising administering to the patient an effective amount of a

xanthine oxidase inhibitor.

26. A method according to Claim 25 wherein the xanthine oxidase inhibitor is any one of

allopurinol, 7,8-dihydroneopterin, 5,6,7,8-tetrahydrobiopterin, leukopterin, xanthopterin,

neopterin, biopterin, 4-amino-6-hydroxypyrazolo[3,4-d]pyrimidine (AHPP) and oxypurinol.

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27. (Amended) A method of claim 1 of treating weight loss due to underlying disease in

a patient the method comprising administering to the patient an effective amount of

erythropoietin.

28. A method of treating weight loss due to underlying disease in a patient the method

comprising electrically stimulating the patient's muscles.

29. (amended) A method according to [any one of the preceding claims] claim 1 wherein

the underlying disease is any one of AIDS, liver cirrhosis, chronic obstructive pulmonary

disease with or without emphysema, chronic renal failure, chronic infections, cancer, heart

disease including hypertension and chronic heart failure.

30. (Amended) A method according to [any one of Claims 1 to 29] claim 1 wherein the

patient has idiopathic cachexia.

31. (Amended) A method according to [any one of Claims 1 to 29] claim 1 wherein the

underlying disease is chronic heart failure and the patient has cardiac cachexia.

35. (Amended) A method of treating or preventing weight loss due to the [ageing] aging

process in a patient the method comprising administering to the patient an effective amount

of an agent which reduces sympathetic nervous system activity.

36. (Amended) A method of treating or preventing weight loss due to the [ageing] aging

process in a patient the method comprising administering to the patient an effective amount

of [any one or more of] a compound selected from the group consisting of a compound which

inhibits the effect of aldosterone such as an aldosterone antagonist; a chymase inhibitor; a

cathepsin inhibitor; a receptor blocker; an imidazoline receptor antagonist; a centrally

acting receptor antagonist; a peripherally acting receptor antagonist; a ganglion blocking

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agent; a drug that has an effect on cardiovascular reflexes and thereby reduce SNS activity

such as an opiate, a digitalis alkaloid, scopolamine; an endothelin receptor antagonist; a

xanthine oxidase inhibitor; and erythropoietin.

37. (Amended) A method of treating or preventing weight loss due to the [ageing] aging

process in a patient the method comprising electrically stimulating the patient's muscles.

38. A method of enhancing exercise performance in a healthy patient the method

comprising administering to the individual an effective amount of an agent which reduces

sympathetic nervous system activity.

39. (amended) A method of enhancing exercise performance in a healthy individual the

method comprising administering the individual an effective amount of [any one or more of]

a compound selected from the group consisting of a compound which inhibits the effect of

aldosterone such as an aldosterone antagonist; a chymase inhibitor; a cathepsin inhibitor; a

receptor blocker; an imidazoline receptor antagonist; a centrally acting receptor antagonist;

a peripherally acting receptor antagonist; a ganglion blocking agent; a drug that has an

effect on cardiovascular reflexes and thereby reduce SNS activity such as an opiate; a

digitalis alkaloid; scopolamine; an anabolic growth factor like growth hormone and insulin-

like growth factor-I (IGF-I); an endothelin receptor antagonist; a TNF antagonist; a

xanthine oxidase inhibitor; and erythropoietin.

40. A method of enhancing exercise performance in a healthy patient the method

comprising electrically stimulating the patient's muscles.

41. (Amended) A method of preventing weight loss consequent to a cardiovascular

disorder in a patient at risk of heart disease the method comprising administering to the

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patient an effective amount of [any one or more of] a compound selected from the group

consisting of a compound with an inhibiting effect on aldosterone; a -receptorblocker; an

imidazoline receptor antagonist; a centrally acting receptoragonist; a peripherally acting

receptor antagonist; and a ganglion blocking agent.

46. A method according to claim 28 wherein the underlying disease is any one of AIDS,

liver cirrhosis, chronic obstructive pulmonary disease with or without emphysema, chronic

renal failure, chronic infections, cancer, heart disease including hypertension and chronic

heart failure.

47. A method according to claim 28 wherein the patient has idiopathic cachexia.

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APPENDIX: Clean Copy of Claims

(amended) A method of treating weight loss due to underlying disease in a patient the 1.

method comprising administering to the patient an effective amount of an agent selected from

the group consisting of an agent which reduces sympathetic nervous system activity and/or

improves cardiovascular reflex status, a compound which inhibits the effect of aldosterone, a

receptor blocker, an imidazoline receptor chymase inhibitor, a cathepsin inhibitor, a

antagonist, an imidazoline receptor antagonist, a peripherally acting receptor antagonist, a

ganglion blocking agent, a drug that has an effect on cardiovascular reflexes and thereby

reduces SNS activity, an opiate, scopolamine, an endothelin receptor antagonist, a xanthine

oxidase inhibitor, and erythropoietin.

A method according to Claim 1 wherein the agent which reduces sympathetic nervous 2.

system activity is any one or more of the following: a compound which inhibits the effect of

aldosterone such as an aldosterone antagonist; a chymase inhibitor; a cathepsin inhibitor; a

receptor blocker; an imidazoline receptor antagonist; a centrally acting receptor antagonist;

receptor antagonist; a ganglion blocking agent; a drug that has an a peripherally acting

effect on cardiovascular reflexes and thereby reduce SNS activity such as an opiate;

scopolamine; endothelin receptor antagonist; a xanthine oxidase inhibitor; and erythropoietin.

(amended) A method claim 1 of treating weight loss due to underlying disease in a 3.

patient the method comprising administering to the patient an effective amount of a

compound which inhibits the effect of aldosterone, such as an aldosterone antagonist.

A method according to Claim 3 wherein the compound which inhibits the effect of 4.

aldosterone is any one of spironolactone, testolactone, RU40555, RU26752, canrenoate,

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eplerenone, 3-(17 -hydroxy-3-oxoandrosta-1,4,6,11-tetraen-17 -yl)propionic acid lactone, 3-(9- -fluoro-17 -hydroxy-3-oxo-androsta-4-en-17 -yl)propionic acid lactone, dihydrospirorenone, spirorenone, 15,16-methylene derivatives of spironolactone, mespirenone and SC9420.

- 5. (amended) A method of claim 1 of treating weight loss due to underlying disease in a patient the method comprising administering to the patient an effective amount of a chymase inhibitor.
- 6. A method according to Claim 5 wherein the chymase inhibitor is any one of alendronate, aprotinin and tissue inhibitors of matrix metalloproteinases.
- 7. (amended) A method of claim 1 of treating weight loss due to underlying disease in a patient the method comprising administering to the patient an effective amount of a cathepsin inhibitor.
- 8. A method according to Claim 7 wherein the cathepsin B inhibitor is any one of an epxoysuccinyl peptide such as CA-074 or E64-c, stefin A and cystatin C.
- 9. (Amended) A method of claim 1 of treating weight loss due to underlying disease in a patient the method comprising administering to the patient an effective amount of a receptor blocker.
- 10. A method according to Claim 9 wherein the receptor blocker is any one of acebutolol, alprenolol, atenolol, betaxolol, bisoprolol, carteolol, celiprolol, esmolol, labetolol, lavobunolol, metipranolol, metoprolol, nadolol, oxprenolol, penbutolol, pindolol, propanolol, sotalol, timolol, nebivolol, carvedilol and bucindolol.

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11. (Amended) A method of claim 1 of treating weight loss due to underlying disease in

a patient the method comprising administering to the patient an effective amount of an

imidazoline receptor antagonist.

12. A method according to Claim 11 wherein the imidazoline receptor antagonist is any

one of moxonidine, rilmenidine, pentamidine and -me thyldopa.

13. (amended) A method of claim 1 of treating weight loss due to underlying disease in a

patient the method comprising administering to the patient an effective amount of an

imidazoline receptor antagonist.

14. A method according to Claim 13 wherein the centrally acting receptor agonist is

clonidine.

15. (Amended) A method of claim 1 of treating weight loss due to underlying disease in

a patient the method comprising administering to the patient an effective amount of a

peripherally acting receptor antagonist.

16. A method according to Claim 15 wherein the peripherally acting receptor antagonist

is any one of doxazosin, prazosin, terazosin and ipsapirone.

17. (amended) A method of claim 1 of treating weight loss due to underlying disease in a

patient the method comprising administering to the patient an effective amount of a ganglion

blocking agent.

18. A method according to Claim 17 wherein the ganglion blocking agent is any one of

azamethonium, dicolinium, hexamethonium, mecamylamine, pentamethonium, pentolinium,

trimetaphan, benzohexonium, hexafluorenium, cypenam, trimethaphan canfosulfonate,

tetraethylammonium bromide and synapleg.

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(Amended) A method of claim 1 of treating weight loss due to underlying disease in 19. a patient the method comprising administering to the patient an effective amount of a drug

that has an effect on cardiovascular reflexes and thereby reduces SNS activity.

(Amended) A method of claim 1 of treating weight loss due to underlying disease in 20.

a patient the method comprising administering to the patient an effective amount of an opiate.

A method according to Claim 20 wherein the opiate is any one of dihydrocodeine, 21.

morphine, diamorphine and buprenorphine.

(Amended) A method of claim 1 of treating weight loss due to underlying disease in 22.

a patient the method comprising administering to the patient an effective amount of

scopolamine.

(Amended) A method of claim 1 of treating weight loss due to underlying disease in 23.

a patient the method comprising administering to the patient an effective amount of an

endothelin receptor antagonist.

A method according to Claim 23 wherein the ET-1 receptor antagonist is any one of 24.

butenolide, BQ123, BQ-788, A-216546, ABT-627, IRL3461, LU135252, S-0139, T-0201,

PD 142,893, PD 164333, RO 61-1790, PD 156,707, SB 209670, IRL 1038 and WS-7338 B.

(Amended) A method of claim 1 of treating weight loss due to underlying disease in 25.

a patient the method comprising administering to the patient an effective amount of a

xanthine oxidase inhibitor.

A method according to Claim 25 wherein the xanthine oxidase inhibitor is any one of 26.

allopurinol, 7,8-dihydroneopterin, 5,6,7,8-tetrahydrobiopterin, leukopterin, xanthopterin,

neopterin, biopterin, 4-amino-6-hydroxypyrazolo[3,4-d]pyrimidine (AHPP) and oxypurinol.

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27. (Amended) A method of claim 1 of treating weight loss due to underlying disease in

a patient the method comprising administering to the patient an effective amount of

erythropoietin.

28. A method of treating weight loss due to underlying disease in a patient the method

comprising electrically stimulating the patient's muscles.

29. (amended) A method according to claim 1 wherein the underlying disease is any one

of AIDS, liver cirrhosis, chronic obstructive pulmonary disease with or without emphysema,

chronic renal failure, chronic infections, cancer, heart disease including hypertension and

chronic heart failure.

30. (Amended) A method according to claim 1 wherein the patient has idiopathic

cachexia.

31. (Amended) A method according to claim 1 wherein the underlying disease is chronic

heart failure and the patient has cardiac cachexia.

35. (Amended) A method of treating or preventing weight loss due to the aging process

in a patient the method comprising administering to the patient an effective amount of an

agent which reduces sympathetic nervous system activity.

36. (Amended) A method of treating or preventing weight loss due to the aging process

in a patient the method comprising administering to the patient an effective amount of a

compound selected from the group consisting of a compound which inhibits the effect of

aldosterone such as an aldosterone antagonist; a chymase inhibitor; a cathepsin inhibitor; a

receptor blocker; an imidazoline receptor antagonist; a centrally acting receptor antagonist;

a peripherally acting receptor antagonist; a ganglion blocking agent; a drug that has an

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effect on cardiovascular reflexes and thereby reduce SNS activity such as an opiate, a

digitalis alkaloid, scopolamine; an endothelin receptor antagonist; a xanthine oxidase

inhibitor; and erythropoietin.

(Amended) A method of treating or preventing weight loss due to the aging process 37.

in a patient the method comprising electrically stimulating the patient's muscles.

A method of enhancing exercise performance in a healthy patient the method 38.

comprising administering to the individual an effective amount of an agent which reduces

sympathetic nervous system activity.

(amended) A method of enhancing exercise performance in a healthy individual the 39.

method comprising administering the individual an effective amount of a compound selected

from the group consisting of a compound which inhibits the effect of aldosterone such as an

aldosterone antagonist; a chymase inhibitor; a cathepsin inhibitor; a receptor blocker; an

imidazoline receptor antagonist; a centrally acting receptor antagonist; a peripherally acting

receptor antagonist; a ganglion blocking agent; a drug that has an effect on cardiovascular

reflexes and thereby reduce SNS activity such as an opiate; a digitalis alkaloid; scopolamine;

an anabolic growth factor like growth hormone and insulin-like growth factor-I (IGF-I); an

antagonist; a xanthine oxidase inhibitor; and endothelin receptor antagonist; a TNF

erythropoietin.

A method of enhancing exercise performance in a healthy patient the method 40.

comprising electrically stimulating the patient's muscles.

(Amended) A method of preventing weight loss consequent to a cardiovascular 41.

disorder in a patient at risk of heart disease the method comprising administering to the

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patient an effective amount of a compound selected from the group consisting of a compound

with an inhibiting effect on aldosterone; a -receptor blocker; an imidazoline receptor

antagonist; a centrally acting receptor agonist; a peripherally acting receptor antagonist;

and a ganglion blocking agent.

46. A method according to claim 28 wherein the underlying disease is any one of AIDS,

liver cirrhosis, chronic obstructive pulmonary disease with or without emphysema, chronic

renal failure, chronic infections, cancer, heart disease including hypertension and chronic

heart failure.

47. A method according to claim 28 wherein the patient has idiopathic cachexia.



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CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.10

I hereby certify that this Preliminary Amendment, and any documents referred to as attached therein, are being deposited with the United States Postal Service on this date, 13 April 2001, in an envelope as "Express Mail Post Office to Addressee" service under 37 C.F.R. § 1.10, Mailing Label Number EL 709 415 018 US addressed to Box PCT, Assistant Commissioner for Patents, Washington, D.C. 20231.

Date: April 13, 2001

Jean Hicks